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WHAT IS CLAIMED IS:

- 1. A method of visualization of a part of a three-dimensional image, wherein the part is defined by a finite predetermined volume, the center of which is located on an element of interest present in the three-dimensional image.
- 2. The method of visualization according to claim 1, wherein that the final three-dimensional image is obtained in the predetermined volume by:
 - a) selecting a point on the element of interest,
- b) creating in the three-dimensional image a volume whose dimensions are predetermined and whose center is the point on the element of interest,
- c) making the intersection between the predetermined volume and the three-dimensional image,
- d) displaying the part of the three-dimensional image contained in the predetermined volume.
- 3. The method of visualization according to claim 1, wherein the predetermined volume can be displaced in the three-dimensional image according to a translational motion, while displaying only the part of the three-dimensional image contained at each instant in the predetermined volume.
- 4. The method of visualization according to claim 2, wherein the predetermined volume can be displaced in the three-dimensional image according to a translational motion, while displaying only the part of the three-dimensional image contained at each instant in the predetermined volume.
- 5. The method of visualization according to claim 1, wherein one displaying the part of the three-dimensional image contained in the

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predetermined volume as well as any other part of the three-dimensional image not contained in a cylinder, with the predetermined volume, of section identical to the section of the predetermined volume and of infinite length, and in that any part of the three-dimensional image not contained in the cylinder is displayed in degraded mode.

- 6. The method of visualization according to claim 2, wherein one displaying the part of the three-dimensional image contained in the predetermined volume as well as any other part of the three-dimensional image not contained in a cylinder, with the predetermined volume, of section identical to the section of the predetermined volume and of infinite length, and in that any part of the three-dimensional image not contained in the cylinder is displayed in degraded mode.
- 7. The method of visualization according to claim 1, wherein once a part of the three-dimensional image is visualized in the predetermined volume, the dimensions of that predetermined volume can be modified by an operator.
- 8. The method of visualization according to claim 2, wherein once a part of the three-dimensional image is visualized in the predetermined volume, the dimensions of that predetermined volume can be modified by an operator.
- 9. The method of visualization according to claim 1, wherein the predetermined volume is a sphere whose diameter is equal to half the width of the three-dimensional image display window.
 - 10. The method of visualization according to claim 2, wherein the predetermined volume is a sphere whose diameter is equal to half the width of the three-dimensional image display window.

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- 11. The method of visualization according to claim 2, wherein once the point is selected on the element of interest, a translation of the three-dimensional image is made, so as to place the point in the center of the three-dimensional display window.
- 12. The method of visualization according to claim 2, wherein the point is selected by means of a cursor.

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